

**SEARCH REQUEST FORM****Scientific and Technical Information Center**

Requester's Full Name: Victor Batson Examiner #: 372261 Date: 2/3/02  
 Art Unit: 3671 Phone Number 30 Serial Number: 09/938218  
 Mail Box and Bidg/Room Location: 2A09 (CPKS) Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Patent # 6,158,523 → 09/183360

<b>STAFF USE ONLY</b>		<b>Type of Search</b>	<b>Vendors and cost where applicable</b>
Searcher:	<u>VB</u>	NA Sequence (#)	STN _____
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Online Time:	<u>15 minutes</u>	Other	Other (specify) _____

Source: [All Sources > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#)

Terms: [patno=6158523](#) ([Edit Search](#))

*Pat. No. 6158523, \**

**6,158,523**

◆ [GET 1st DRAWING SHEET OF 4](#)

Dec. 12, 2000

Agricultural disc mounting system and method

**REISSUE:** Reissue Application filed Aug. 23, 2001 (O.G. Nov. 6, 2001) Ex. Gp.: 3671; Re. S.N. 09/938,218

**INVENTOR:** Gengler, Allan S., Beloit, Kansas  
Heidrick, Bradley A., Simpson, Kansas  
Hughes, Jeffrey S., Glen Elder, Kansas

**ASSIGNEE-AT-ISSUE:** Sunflower Manufacturing Co., Inc., Beloit, Kansas (02)

**ASSIGNEE-AFTER-ISSUE:** Date Transaction Recorded: Oct. 09, 2001

NONE

SECURITY AGREEMENT

CHASE MANHATTAN BANK, THE, AS COLLATERAL AGENT P.O. BOX 2558 HOUSTON, TEXAS 77252

Reel & Frame Number: 012219/0190

**APPL-NO:** 183,360

**FILED:** Oct. 30, 1998

**INT-CL:** [7] A01B 35#28

**US-CL:** 172#574; 172#572; 172#573; 172#708; 172#711

**PRIM-EXMR:** Batson, Victor

**CORE TERMS:** leg, blade, leaf spring, mounting, spindle, spring, gang, rear, disc, shield...

Source: [All Sources > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#)

Terms: [patno=6158523](#) ([Edit Search](#))

View: [Custom](#) - [Modify](#)

Segments: After-issue, Appl-no, Assign-action, Assign-contact, Assign-date, Assign-frame, Assign-reel, Assignee, Assignor-info, Asst-exmr, At-issue, Certcorr, Date, Disclaimer, Exmr, Expiration-date, Filed, Govt-int, Int-cl, Inventor, Lit-reex, Patno, Pct-filed, Pct-no, Pct-pub-date, Pct-pub-no, Prim-exmr, Reex-cert, Reissue, Rel-us-data, Title, Us-cl

Date/Time: Thursday, February 7, 2002 - 3:25 PM EST

109C25

Print Request: Current Document: 1

Time of Request: February 7, 2002 03:27 pm EST

Number of Lines: 31

Job Number: 928:0:45965964

Client ID/Project Name:

Research Information:

Utility, Design and Plant Patents

patno=6158523

Send to: GRIFFIN, ETELKA  
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1911 S CLARK ST  
ARLINGTON, VIRGINIA 22202-3503

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1/1 PLUSPAT - (C) QUESTEL-ORBIT  
PN - US6158523 A 20001212 [US6158523]  
TI - (A) Agricultural disc mounting system and method  
PA - (A) SUNFLOWER MFG CO INC (US)  
IN - (A) GENGLER ALLAN S (US); HEIDRICK BRADLEY A (US); HUGHES JEFFREY S (US)  
AP - US18336098 19981030 [1998US-0183360]  
PR - US18336098 19981030 [1998US-0183360]  
IC - (A) A01B-035/28  
EC - A01B-015/18  
- A01B-035/28  
PCL - ORIGINAL (O) : 172574000; CROSS-REFERENCE (X) : 172572000 172573000  
172708000 172711000  
DT - Basic  
CT - US-889486; US-928029; US1529042; US2211675; US2750861; US3058531;  
US3640348; US3967685; US4066132; US4333535; US4407372; US4428437;  
US4520875; US4683958; US4724910; US4759411; US5042590; US5267619;  
US5785129  
- Sales Literature of Brillion Iron Works, Inc. of Brillion, Wisconsin  
for Soil Commander, exact publication date unknown, but at least one  
year prior to the filing of the present application.

Sales Literature of DMI, Inc. of Goodfield, Illinois for conservation  
yield-till tools Model 530, exact publication date unknown, but at  
least one year prior to the filing of the present application.

Sales Literature of Krause Corporation of Hutchinson, Kansas for disc  
and deep till in one-pass, exact publication date unknown, but at  
least one year prior to the filing of the present application.

Sales Literature of Landoll Corporation of Marysville, Kansas for  
Weatherproofer II disc and deep-till, exact publication date unknown,  
but at least one year prior to the filing of the present application.

Sales Literature of Sunflower Manufacturing Co., Inc. of Beloit,  
Kansas for Series 4000 Deep Tillage, exact publication date unknown,  
but at least one year prior to the filing of the present application.

Sales Literature of Sunflower Manufacturing Co., Inc. of Beloit,  
Kansas for Series 4311 Disc-Ripper, exact publication date unknonw,  
but at least one year prior to the filing of the present application.

STG - (A) United States patent  
AB - A disc mounting system includes the attachment of each disc to a disc  
gang bar via a dedicated leaf spring. Each of the leaf springs, which  
can be generally U shaped, are attached at a top end to the gang bar  
and at a lower leg to a disc spindle such that the disc is positioned  
at least partially alongside the spring lower leg. The mounting system  
allows the disc to deflect vertically, laterally or torsionally when  
the disc encounters an obstacle. An optional shield can be attached to  
the leaf spring to prevent soil and debris thrown out by adjacent  
discs from entering the spring. A disc scraper blade can also be  
attached to the shield.  
UP - 2001-01

1/1 LGST - (C) LEGSTAT  
PN - US 6158523 [US6158523]

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AP - US 183360/98 19981030 [1998US-0183360]  
DT - US-P  
ACT - 19981030 US/AE-A  
APPLICATION DATA (PATENT)  
{US 183360/98 19981030 [1998US-0183360] }  
- 20001212 US/A  
PATENT  
- 20011106 US/RF  
REISSUE APPLICATION FILED  
20010823  
UP - 2001-48

1/1 CRXX - (C) CLAIMS/RRX  
PN - 6,158,523 A 20001212 [US6158523]  
PA - Sunflower Mfg Co Inc  
ACT - 20010823 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20011106  
REISSUE REQUEST NUMBER: 09/938218  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3671

Reissue Patent Number:

- 20011009 REASSIGNED  
SECURITY AGREEMENT

Assignor: SUNFLOWER MANUFACTURING COMPANY, INC. DATE SIGNED: 07/10/2001

Assignee: CHASE MANHATTAN BANK, THE, AS COLLATERAL AGENT P.O. BOX 2558  
HOUSTON, TEXAS 77252

Reel 012219/Frame 0190

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LEXINGTON AVE. NEW YORK, NY 10017

1/1 PAST - (C) PAST  
AN - 200145-001737  
PN - 6158523 A [US6158523]  
OG - 2001-11-06  
ACT - REISSUE APPLICATION FILED

Search statement 2

?file inpadoc

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1/1 INPADOC - (C) INPADOC  
PN - US 6158523 A 20001212 [US6158523]  
TI - AGRICULTURAL DISC MOUNTING SYSTEM AND METHOD  
IN - GENGLER ALLAN S [US]; HEIDRICK BRADLEY A [US]; HUGHES JEFFREY S [US]  
PA - SUNFLOWER MFG CO INC [US]  
AP - US 183360/98-A 19981030 [1998US-0183360]  
PR - US 183360/98-A 19981030 [1998US-0183360]  
IC - A01B-035/28

1/1 LEGALI - (C) LEGSTAT  
PN - US 6158523 [US6158523]  
AP - US 183360/98 19981030 [1998US-0183360]  
DT - US-P  
ACTE- 19981030 US/AE-A  
APPLICATION DATA (PATENT)  
{US 183360/98 19981030 [1998US-0183360] }  
- 20001212 US/A  
PATENT  
- 20011106 US/RF  
REISSUE APPLICATION FILED  
20010823  
UP - 2001-48